

Headed Bars – Codes & Requirements



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This document has been prepared to provide a brief summary of codes and requirements for headed bars. This information is not to be used in place of the actual documents they represent, but rather to provide a reference to the appropriate documents.

CODE	REQUIREMENTS
<p>ASTM A970</p> <p><i>Standard Specification for Headed Steel Bars for Concrete Reinforcement</i></p>	<p>Class A</p> <ul style="list-style-type: none"> Develop the minimum specified tensile strength of the reinforcing bar. <p>Class B</p> <ul style="list-style-type: none"> Develop the minimum specified tensile strength and the minimum specified elongation of the reinforcing bar. <p>Class HA</p> <ul style="list-style-type: none"> Develop the minimum specified tensile strength of the reinforcing bar, provide a head with a net bearing area of at least 4 times the cross-sectional area of the bar, and meet dimensional requirements for obstructions as defined in the specification.
<p>ACI 318-08, ACI 318-11, ACI 318-14</p> <p><i>Building Code Requirements for Structural Concrete & Commentary</i></p>	<p>Headed Deformed Bars in Tension</p> <ul style="list-style-type: none"> Conform to ASTM A970 Class HA. Bar f_y shall not exceed 60,000 psi. Bar size shall not exceed No. 11.
<p>ACI 318-19</p> <p><i>Building Code Requirements for Structural Concrete & Commentary</i></p>	<p>Headed Deformed Bars in Tension</p> <ul style="list-style-type: none"> Conform to ASTM A970 Class HA. Bar size shall not exceed No. 11. <p><i>(60,000 psi limitation removed).</i></p>
<p>Caltrans Standard Specifications</p> <p><i>Section 52-5 HEADED BAR REINFORCEMENT</i></p> <p>Caltrans Acceptance Criteria for Headed ASTM A706 Reinforcing Steel Bars</p>	<p>Headed Bar Reinforcement</p> <ul style="list-style-type: none"> Develop the minimum specified tensile strength of the reinforcing bar per ASTM A970 Class A requirements. Rupture in the rebar, with visible necking or decrease in the sample's cross-sectional area, at the point of rupture. The visible necking must be located at least one bar diameter away from the affected zone.

Warning:

HRC products are designed to meet and exceed the standards referenced in this document, but individual project specifications and quality control requirements apply. HRC destructively tensile tests finished products daily as part of our quality control, but cannot be responsible for material furnished by local fabricators and/or contractors using HRC related equipment or components. Aspects of structural design, evaluation of product fitness for use, suitability or similar attributes are the responsibility of others.